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P.003/005 F-512 T-388

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Re: Appeal to the Board of Patent Appeals and Interferences

n re <u>PATENT APPLICATION</u> of nventor(s): Mills		Group Art Unit: 1754				
Appln. No.: 09/009,455		Examin	ier: Langel <i>foi</i>	Secret Comm	ittee	
Filing Date: 1/20/1998						
Title: HYDRIDE FUEL AND EXPLOSIVE						
Sir.		Januan	y 7, 2002			
NOTICE OF APPEAL: Applicant hereby apper from the decision (not Advisory Action) dated of the Examiner twice/finally rejecting claims	eals to the Board of Pater	nt Appeals and	Interferences			
2 BRIEF on appeal in this application attached i	n triplicate.					
3 An <u>ORAL HEARING</u> is respectfully requested <u>unextendable</u>).	under Rule 194 (due tw	o months after I	Examiner's Answe	· .		
4 Reply Brief is attached in triplicate (due two me	onths after Examiner's A	nswer – <u>unexte</u>	ndable).			
5 X "Small entity"	herewith.	ewith. x previously.				
6 FEE CALCULATION:	, , , , , , , , , , , , , , , , , , , ,		Large/Small Entity			
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If box 2 above is X'd, see box 12 below first and decide:		enter	\$	\$		
If box 3 above is X'd, see box 12 below first and decide:		enter	\$	\$		
If box 4 above is X'd,	*****	enter nothing	- 0 - (no fee)			
7. Original due date: Petition Requested and Fees Pa	aid In Accompanying F	ee Transmitta				
8. Petition is hereby made to extend the original due of the date this response is filed for which the requisite fee	ate to cover (1 months) is altached (2 months) (3 months) (4 months) (5 months)	WWWW				
9. Enter any previous extension fee paid [] previously : 7); [X] with concurrently filed amendment	since above <u>original</u> due	date (item	-			
10. Subtrac	Subtract line 9 from line 8 and enter: Total Extension Fee			+160		
11		TOTAL FE	E ATTACHED =	\$160		
 *Fee <u>NOT</u> required if/since paid in prior appead did <u>not</u> render a decision on the merits. 	l in which the Board of P	atent Appeals :	and Interferences			
CHARGE STATEMENT: The Commissioner is hereby authorized to be filed, or which should have been filed herewith or concerning any now or hereafter relative to this application and the resulting Official dourpose a duplicate copy of this sheet is attached. This CHARGE STA VIANEIII Denison & Selter, PLLC	paper filed hereafter, and wh locument under Rule 20, or ca	ich may be require edit any overpayn charge of the <u>issu</u>	d under Rules 16-18 (nent, to our Account/	missing or insufficient	for which	
Customer No.: 20736		,	Reg. N Tel: (2)	S. Melcher lo. 35,950 02) 261-1045 202) 887-0336		

Page 1 of 2 Filing Receipt for Documents Filed in U.S. Patent and Trademark Office U.S. Serial No.: 09/009,455 Inventor: Mills Date: January 7, 2002

Enclosed Items:

Response to final Office Action- 90 pages Appendix to Response – 168 pages

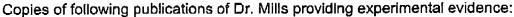
Petition for Three Months Extension

Notice of Appeal

Rule 132 Declaration of Dr. Mills

Two (2) Information Disclosure Statements

Check: \$580



- 1. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.
- 2. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.
- 3. R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.
- 4. R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.
- 5. R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.
- 7. R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.
- 8. R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Baπeries", Proceedings of the 17th Annual Baπery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.
- 9. R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.
- 10. R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer α Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted.
- 11. R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted.
- 12. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer & Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.
- 13. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.
- 14. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.
- 15. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.
- 16. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.
- 17. R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.
- 18. R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.
- 19. R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer & Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.
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- 21. R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.
- 22. R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.
- 23. R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.



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In re PATENT APPLICATION of Inventor(s)Mills

Appln. Nos. 09/362,693 and 09/009,455

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